

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>305038WO/MNE</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. <b>PCT/GB2005/000132</b>	International filing date (day/month/year) <b>17/01/2005</b>	(Earliest) Priority Date (day/month/year) <b>16/01/2004</b>
Applicant  <b>CAMBRIDGE UNIVERSITY TECHNICAL SERVICES LIMITED</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

### 1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

### 4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

### 5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

### 6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01L51/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	E.J. MEIJER ET AL.: "SOLUTION-PROCESSED AMBIPOLAR ORGANIC FIELD-EFFECT TRANSISTORS AND INVERTERS" NATURE MATERIALS, vol. 2, 21 September 2003 (2003-09-21), pages 678-682, XP002327478 LONDON cited in the application the whole document	1-10, 12-21
X	EP 1 306 909 A (INTERUNIVERSITAIR MICRO-ELEKTRONICA CENTRUM; LIMBURG UNIVERSITEIT CENT) 2 May 2003 (2003-05-02) claim 1; figure 1 ----- -/--	1-10, 12-21

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

9 May 2005

Date of mailing of the international search report

31/05/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 306 910 A (INTERUNIVERSITAIR MICRO-ELEKTRONICA CENTRUM ; AGFA-GEVAERT N.V; LIMBUR) 2 May 2003 (2003-05-02) figures 1,4 -----	1-10, 12-21
X	EP 1 102 335 A (LUCENT TECHNOLOGIES INC) 23 May 2001 (2001-05-23) paragraph '0007!; figure 4 -----	1-10, 12-21
T	CHUA, LAY-LAY ET AL: "General observation of n-type field-effect behavior in organic semiconductors" NATURE, ISSN: 0028-0836, vol. 434, no. 7030, 10 March 2005 (2005-03-10), pages 194-199, XP002327479 LONDON, UNITED KINGDOM the whole document -----	1-21

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1306909	A	02-05-2003	EP 1306909 A1	02-05-2003
			EP 1306910 A1	02-05-2003
			US 2003085397 A1	08-05-2003
EP 1306910	A	02-05-2003	EP 1306909 A1	02-05-2003
			EP 1306910 A1	02-05-2003
			US 2003085397 A1	08-05-2003
EP 1102335	A	23-05-2001	US 6284562 B1	04-09-2001
			EP 1102335 A2	23-05-2001
			JP 2001177109 A	29-06-2001